

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 April 2004 (15.04.2004)

PCT

(10) International Publication Number
WO 2004/030682 A1

(51) International Patent Classification⁷: **A61K 35/78, C07C 13/62**

(21) International Application Number:
PCT/BR2003/000144

(22) International Filing Date: **2 October 2003 (02.10.2003)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
PI 0204060-3 3 October 2002 (03.10.2002) BR

(71) Applicant (*for all designated States except US*): **UNIVERSIDADE FEDERAL DO RIO DE JANEIRO [BR/BR]; Avenida Brigadeiro Trompowski s/n, Ilha do Fundão, Rio de Janeiro, RJ (BR).**

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **GATTASS, Cerli, Rocha [BR/BR]; Rua Ministro Ramos Monteiro 51, Apt. 1304, Leblon, Rio de Janeiro, RJ (BR). RUMJANEK, Vivian, Mary, Dodd [BR/BR]; Rua João Afonso 87 A., Humaitá, Rio de Janeiro, RJ (BR). FERNANDES, Janaína [BR/BR]; Rua Vandenkolk 7, Apt. 402, Olaria, Rio de Janeiro, RJ (BR). CASTILHO, Rachel, Oliveira [BR/BR]; Rua Caiúcas 341, Jardim Imã, Campo Grande, Mato Grosso do Sul (BR). KAPLAN, Maria, Auxiliadora, Coelho [BR/BR]; Avenida Atlântica 3502, Apt. 801, Copacabana, Rio de Janeiro, RJ (BR).**

(74) Agent: **ALMEIDA, Kátia, Fernandes; Bhering, Almeida & Associados, Rua Beneditinos, 16, 11o andar, 20081-050 Rio de Janeiro, RJ (BR).**

(81) Designated States (*national*): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**

(84) Designated States (*regional*): **ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**

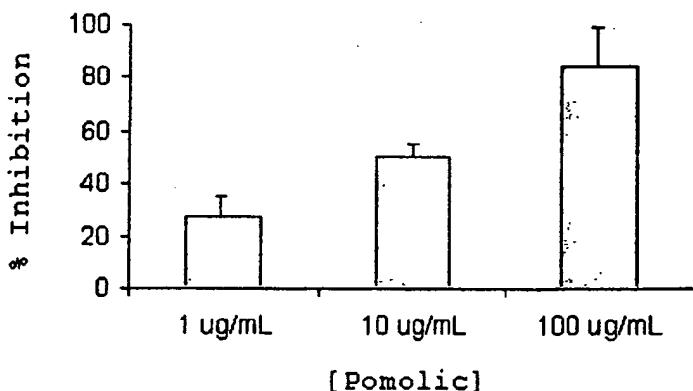
Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **POMOLIC ACID, ITS ISOMERS, DERIVATIVES AND THEIR USES, PHARMACEUTICAL COMPOSITION METHOD TO PREPARE THE PHARMACEUTICAL COMPOSITION AND METHOD FOR TREATING MULTIDRUG RESISTANT TUMOURS**

K562



(57) Abstract: The present invention describes the use of pomolic acid, its derivatives and pharmaceutical preparations derived from them as anti-neoplastic agents in the treatment of multidrug resistant tumors. In relation to other drugs that present anti-MDR activity, these substances do not require the concomitant use of reversers to exert their anti-MDR activities.

WO 2004/030682 A1